

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	89	ikemizu-mugihai\$.in. or yoshikawa-hirofumi \$.in. or nishio-masahiro \$.in.	US-PGPUB; USPAT	OR	ON	2008/09/29 10:31
S4	69	sharp.as. and ("washing machine" or washer or laund\$5) and ion	US-PGPUB; USPAT	OR	ON	2008/09/29 11:15
S10	2	"2001276484"	JPO; DERWENT	OR	ON	2008/09/29 11:39
S17	17	"2001276484" "2001009188" "2004166938" "2002263397" "2001276469" "2001046790"	JPO; DERWENT	OR	ON	2008/09/29 11:59
S18	1	"6023854".pn.	US-PGPUB; USPAT	OR	ON	2008/09/29 12:55
S20	14	"2260547" "1580313" "1445367"	DERWENT	OR	ON	2008/09/29 13:05
S22	1	"68".clas. and ((imbalanc\$3 or balanc \$3) and ion).clm.	US-PGPUB; USPAT	OR	ON	2008/09/29 13:18
S23	84	"washing machine" and ((imbalanc\$3 or balanc\$3) and ion). clm.	US-PGPUB; USPAT	OR	ON	2008/09/29 13:19
S45	220	"68".clas. and ion	US-PGPUB; USPAT	OR	ON	2008/10/01 14:42
S46	5338	"washing machine" and ion	US-PGPUB; USPAT	OR	ON	2008/10/01 14:45
S47	964	"washing machine" and ion.clm.	US-PGPUB; USPAT	OR	ON	2008/10/01 14:45
S48	47	sharp.as. and ("washing machine" or washer or laund\$5 or "drying machine" or dryer) and (balanc\$3 or imbalanc\$3)	US-PGPUB; USPAT	OR	ON	2008/10/01 15:32

S49	1114	"68".clas. and (imbalanc\$3 or balanc\$3)	US-PGPUB; USPAT	OR	ON	2008/10/01 15:47
S51	54	"68".clas. and ((imbalanc\$3 or balanc\$3) near (correct\$3 or fix\$3))and ("washing machine" or washer or dryer or "drying machine" or laund\$5)	US-PGPUB; USPAT	OR	ON	2008/10/01 15:49
S52	215	68/12.06.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/02 09:00
S53	4	68/12.06.ccls. and ion	US-PGPUB; USPAT	OR	ON	2008/10/02 09:11
S54	71	68/13A.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/02 09:50
S55	6	68/13A.ccls. and (balanc\$3 or imbalanc\$3)	US-PGPUB; USPAT	OR	ON	2008/10/02 13:10
S56	47	68/12.01-12.27.ccls. and ion	US-PGPUB; USPAT	OR	ON	2008/10/02 13:52
S68	6	"550002".ap.	US-PGPUB; USPAT	OR	ON	2008/10/02 14:41
S73	16	"68".clas. and (ion same rinse)	US-PGPUB; USPAT	OR	ON	2008/10/02 15:49
S74	69	"68".clas. and (ion same (cycle or step))	US-PGPUB; USPAT	OR	ON	2008/10/02 15:53
S75	55	"68".clas. and ((antibacterial or disinfect\$4) same (cycle or step or rinse))	US-PGPUB; USPAT	OR	ON	2008/10/02 15:56
S76	4	"68".clas. and (ion same spin)	US-PGPUB; USPAT	OR	ON	2008/10/02 16:36
S77	52	"68".clas. and ((antibacterial or disinfect\$4) same (cycle or step or spin))	US-PGPUB; USPAT	OR	ON	2008/10/02 16:36
S97	2	"06269592" or "03097497"	JPO	OR	ON	2008/10/06 09:25
S98	427	"68".clas. and (finish\$3 same treat\$4)	US-PGPUB; USPAT	OR	ON	2008/10/06 09:36
S99	60	"68".clas. and (finish\$3 same treat\$4) and (balanc\$3 or unbalanc\$3)	US-PGPUB; USPAT	OR	ON	2008/10/06 09:36

S100	119	"68".clas. and ((finish\$3 same treat\$4) same (cycle or step or spin))	US-PGPUB; USPAT	OR	ON	2008/10/06 09:37
S102	2	"68".clas. and ((balanc\$3 or imbalanc\$3) near (rins\$3))	US-PGPUB; USPAT	OR	ON	2008/10/06 11:27
S103	117	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and (balanc\$3 or imbalanc\$3) and (rins\$3)	DERWENT	OR	ON	2008/10/06 11:28
S104	299	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and (finish\$3 same treat\$4) same (cycle or step or spin)	US-PGPUB; USPAT	OR	ON	2008/10/06 11:29
S105	1	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and (finish\$3 same treat\$4) and (balanc\$3 or unbalanc\$3)	DERWENT	OR	ON	2008/10/06 11:30
S106	23	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and ((antibacterial or disinfect\$4) same (cycle or step or spin))	DERWENT	OR	ON	2008/10/06 11:30
S107	32	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and (ion same (cycle or step))	DERWENT	OR	ON	2008/10/06 11:31
S108	31	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and (ion same rinse)	DERWENT	OR	ON	2008/10/06 11:31
S109	1330	"68".clas. and (finish\$3)	US-PGPUB; USPAT	OR	ON	2008/10/06 11:36
S110	304	"68".clas. and ((finish\$3) same (step))	US-PGPUB; USPAT	OR	ON	2008/10/06 11:37
S111	203	"68".clas. and ((finish\$3) same (agent))	US-PGPUB; USPAT	OR	ON	2008/10/06 11:38
S112	109	"68".clas. and ((finish\$3) near(agent))	US-PGPUB; USPAT	OR	ON	2008/10/06 11:38

S113	278	68/23.1.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/06 13:29
S114	0	68/23.1.ccls. and ion	US-PGPUB; USPAT	OR	ON	2008/10/06 13:29
S115	365	68/23.5.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/06 13:29
S116	5	68/23.5.ccls. and ion	US-PGPUB; USPAT	OR	ON	2008/10/06 13:29
S117	16	68/23.5.ccls. and finish \$3	US-PGPUB; USPAT	OR	ON	2008/10/06 13:30
S118	3	68/23.5.ccls. and (antibacterial or antiseptic or antifungal)	US-PGPUB; USPAT	OR	ON	2008/10/06 13:30
S119	480	68/24.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/06 13:31
S120	5	68/24.ccls. and ion	US-PGPUB; USPAT	OR	ON	2008/10/06 13:31
S121	49	68/23.5.ccls. and (balanc\$3 or imbalanc \$3 or vibrat\$3)	US-PGPUB; USPAT	OR	ON	2008/10/06 13:32
S122	27	68/23.5.ccls. and (treat \$4)	US-PGPUB; USPAT	OR	ON	2008/10/06 13:34
S123	251	68/12.14.ccls.	US-PGPUB; USPAT	OR	ON	2008/10/06 13:57
S124	3	68/12.14.ccls. and ion	US-PGPUB; USPAT	OR	ON	2008/10/06 13:58
S125	16	68/12.14.ccls. and (treat\$4 or antibacterial or antifungal or antiseptic)	US-PGPUB; USPAT	OR	ON	2008/10/06 13:58
S126	69	68/12.14.ccls. and (balanc\$4 or imbalanc \$4 or unbalanc\$4 or vibrat\$4)	US-PGPUB; USPAT	OR	ON	2008/10/06 15:15
S133	146	"68".clas. and ("washing machine" or washer) and (balanc\$4 or unbalanc\$4 or imbalanc\$4 or vibrat \$4) and (ion or silver or zinc or copper or disinfect\$4 or antibacterial or antiseptic or antifungal)	US-PGPUB; USPAT	OR	ON	2008/10/06 18:20

S136	2	"56069372"	EPO; JPO; DERWENT	OR	ON	2008/10/06 18:34
S137	2	"05074487"	EPO; JPO; DERWENT	OR	ON	2008/10/06 18:36
S138	1	1993-086755.NRAN.	DERWENT	OR	ON	2008/10/06 18:37
S146	357	"68".clas. and ("washing machine" or washer) and ((unbalanc \$3 or vibrat\$3 or imbalanc\$3 or balanc \$3 or eccentr\$6) same (rins\$4 or wet\$4 or spray\$4))	US-PGPUB; USPAT	OR	ON	2008/10/07 10:26
S148	184	"68".clas. and ("washing machine" or washer) and ((unbalanc \$3 or vibrat\$3 or imbalanc\$3 or balanc \$3 or eccentr\$6) same (rins\$4 or wet\$4 or spray\$4)) and (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4)	US-PGPUB; USPAT	OR	ON	2008/10/07 10:28
S150	39	"68".clas. and ("washing machine" or washer) and ((unbalanc \$3 or vibrat\$3 or imbalanc\$3 or balanc \$3 or eccentr\$6) same (rins\$4 or wet\$4 or spray\$4) same (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4 or adjuvant))	US-PGPUB; USPAT	OR	ON	2008/10/07 10:30
S151	828	"68".clas. and ("washing machine" or washer) and ((rins\$4 or wet\$4 or spray\$4) same (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4 or adjuvant))	US-PGPUB; USPAT	OR	ON	2008/10/07 10:38

S152	303	"68".clas. and ("washing machine" or washer) and ((rins\$4 or wet\$4 or spray\$4) same (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4 or adjuvant)) and (unbalanc\$3 or vibrat\$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT	OR	ON	2008/10/07 10:39
S157	17	"68".clas. and ("washing machine" or washer) and ((rebalanc\$4))	US-PGPUB; USPAT	OR	ON	2008/10/07 12:44
S158	28	"68".clas. and ("washing machine" or washer) and ((rebalanc\$4 or reorient\$6))	US-PGPUB; USPAT	OR	ON	2008/10/07 12:44
S159	35	68/13A.cds. and (rins\$4 or balanc\$4 or imbalanc\$4 or unbalanc\$4 or vibrat\$4 or eccentric\$4 or cycle or tumble or agit\$4)	US-PGPUB; USPAT	OR	ON	2008/10/07 13:39
S160	8	("2406494"   "4112590"   "5435837"   "6085556"   "6564591").FN. OR ("6954995").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/07 14:12
S164	5	"06269592" or "03097497" or "57096686"	JPO; DERWENT	OR	ON	2008/10/07 14:56
S171	154	"68".clas. and ((angl\$3 or inclin\$3) near3 drum) and ("washing machine" or washer)	US-PGPUB; USPAT	OR	ON	2008/10/07 18:32
S172	64	"68".clas. and ((tilt\$3 or slant\$3) near3 drum) and ("washing machine" or washer)	US-PGPUB; USPAT	OR	ON	2008/10/07 19:19
S175	4	("3640098"   "4344198"   "4765161"   "4843671").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 11:58
S176	14	("3640098"   "4344198"   "4765161"   "4843671").FN. OR ("5671494").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 11:59

S177	1673	"68".clas. and ((redistribut\$4 or distribut\$4 or re-orient \$4 or reorient\$4) same (load or cloth\$4 or laundry))	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 12:33
S178	568	"68".clas. and ((redistribut\$4 or distribut\$4 or re-orient \$4 or reorient\$4) near (load or cloth\$4 or laundry))	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 12:34
S179	61	"68".clas. and (((redistribut\$4 or distribut\$4 or re-orient \$4 or reorient\$4) near (load or cloth\$4 or laundry)) same (tumble))	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 12:34
S181	223	"68".clas. and (((redistribut\$4 or distribut\$4 or re-orient \$4 or reorient\$4) near (load or cloth\$4 or laundry)) same (tumbl \$4 or rins\$4 or spray \$4))	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 12:35
S182	27	("3422957"   "3447686"   "3548615"   "3583182"   "3674419"   "3997751"   "4449383"   "4479371"   "4517695"   "4677291"   "5029458"   "5038587"   "5050407"   "5165260"   "5218731"   "5259218"   "5269159"   "5280660"   "5301522"   "5325677"   "5375282"   "5375437"   "5440086").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/10/08 12:42
S183	5	("5440086").URPN.	USPAT	OR	ON	2008/10/08 12:42
S185	76	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and (ion\$4 same rins\$4)	DERWENT	OR	ON	2008/10/08 14:11

S189	54	(x27.dc. or b08\$.ipcr. or d06\$.ipcr.) and ("washing machine" or washer) and ((copper or silver or zinc or disinfect\$4 or antibacterial or antiseptic or antifungal) same rins \$4)	DERWENT	OR	ON	2008/10/08 15:00
S190	39	S189 not S185	DERWENT	OR	ON	2008/10/08 15:01
S195	5	"2004003280"	JPO; DERWENT	OR	ON	2008/10/08 15:23
S199	24	"2002113288" or "03097497" or "07096686" or "2000093691" or "11114276" or "61172594" or "2000157782" or "10263280" or "2003071184" or "10156086"	JPO; DERWENT	OR	ON	2008/10/08 15:49
S202	5122	(ion\$4 or electroly\$4) near (rins\$4 or spray \$4)	US-PGPUB; USPAT	OR	ON	2008/10/08 17:58
S203	728	(ion\$4 or electroly\$4) near (rins\$4)	US-PGPUB; USPAT	OR	ON	2008/10/08 17:59
S204	498	(ion\$4) near (rins\$4)	US-PGPUB; USPAT	OR	ON	2008/10/08 17:59
S205	220	((ion\$4) near (rins\$4)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/08 17:59
S207	15	"134".clas. and ((ion \$4) near (rins\$4)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/08 18:02
S210	141	"134".clas. and ((ion \$4) near (spray\$4 or wash\$4 or clean\$4 or bath\$4 or soak\$4 or shower)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/08 18:34



S217	17	("134".clas. or "68". clas.) and ((ion\$4 near (rins\$4)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/08 20:31
S220	216	("134".clas. or "68". clas.) and ((ion\$4 or electrol\$5) near (spray \$4 or wash\$4 or clean \$4 or bath\$4 or soak \$4 or shower)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/08 20:35
S221	215	S220 not S205	US-PGPUB; USPAT	OR	ON	2008/10/08 20:35
S222	119	("134".clas. or "68". clas.) and ((silver or copper or zinc or ag or cu or zn) near (spray \$4 or wash\$4 or clean \$4 or bath\$4 or soak \$4 or shower)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/09 08:47
S227	2	("68".clas.) and ((silver or copper or zinc or ag or cu or zn) near (rins \$4 or spray\$4 or wash \$4 or clean\$4 or bath \$4 or soak\$4 or shower)) same (amount or quantity or less or more or concentration)	US-PGPUB; USPAT	OR	ON	2008/10/09 08:55
S229	55	68/13A.ccls. and (rins \$4 or spray\$4 or wash \$4 or clean\$4 or bath \$4 or soak\$4 or shower)	US-PGPUB; USPAT	OR	ON	2008/10/09 09:12

S232	40	68/13A.ccls. and ((rins\$4 or spray\$4 or wash\$4 or clean\$4 or bath\$4 or soak\$4 or shower) same (high\$4 or low\$4 or less\$3 or great\$4 or increas\$4 or reduce\$4 or amount or quantity or more or concentration or accumulat\$4 or (build-up) or "build up"))	US-PGPUB; USPAT	OR	ON	2008/10/09 09:18
S233	159	("68".clas. or "134". clas.) and ((silver or copper or zinc or ag or cu or zn) near (rins\$4 or spray\$4 or wash\$4 or clean\$4 or bath\$4 or soak\$4 or shower)) same (high\$4 or low\$4 or less\$3 or great\$4 or increas\$4 or reduce\$4 or amount or quantity or more or concentration or accumulat\$4 or (build-up) or "build up")	US-PGPUB; USPAT	OR	ON	2008/10/09 09:18
S236	6	"2003154195" or "2001070221"	JPO; DERWENT	OR	ON	2008/10/09 09:47
S237	39	"5954937"	US-PGPUB; USPAT	OR	ON	2008/10/09 09:57
S238	55	"5431032" or "5473914" or "5435157" or "5285664" or "5469719" or "5659912" or "5768730"	US-PGPUB; USPAT	OR	ON	2008/10/09 09:59
S239	1166	"68".clas. and (elut\$4 or dissolut\$4 or dissolv\$4 or leach\$4 or entrain\$4)	US-PGPUB; USPAT	OR	ON	2008/10/09 15:52
S240	63	"68".clas. and (elut\$4 or dissolut\$4 or dissolv\$4 or leach\$4 or entrain\$4) and (unbalanc\$4 or wobbl\$4 or imbalanc\$4 or "out of balance" or gytrat\$4 or precess\$4 or gyroscopic\$4 or nutat\$4)	US-PGPUB; USPAT	OR	ON	2008/10/09 15:53

S241	2	"2001276484"	JPO; DERWENT	OR	ON	2008/10/09 16:08
S246	934	"68".clas. and (imbalanc\$3 or balanc\$3) and ("washing machine" or washer or dryer or "drying machine" or laund\$5)	US-PGPUB; USPAT	OR	ON	2008/10/14 14:22
S247	0	wo2001071084	DERWENT	OR	ON	2008/10/14 14:37
S248	32	"071084"	DERWENT	OR	ON	2008/10/14 14:37
S249	206	"001083"	DERWENT	OR	ON	2008/10/14 14:38
S251	154	"68".clas. and ((balanc\$3 or imbalanc\$3) same (rins\$3))	US-PGPUB; USPAT	OR	ON	2008/10/14 14:55
S252	38	"68".clas. and (((slant\$4 or tilt\$4 or angl\$4) near5 (drum or tub)) same (redistribut\$4 or toss\$4 or balanc\$4 or imbalanc\$4))	US-PGPUB; USPAT	OR	ON	2009/03/13 14:16
S253	10	"6032494"	US-PGPUB; USPAT	OR	ON	2009/03/13 14:30
S254	74	68/ 13A.ccls.	US-PGPUB; USPAT	OR	ON	2010/01/20 14:53
S255	236	68/ 12.06.ccls.	US-PGPUB; USPAT	OR	ON	2010/01/20 14:53
S256	1592	((wash\$4 or dry\$4 or laundry or fabric) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion\$4 or silver or copper or zinc or ag or cu or zn) with (rins\$4)	US-PGPUB; USPAT	OR	ON	2010/01/20 14:54
S257	40	((wash\$4 or dry\$4 or laundry or fabric) near5 (appliance or machine or cloth\$4 or textile or garment or fabric)) and (ion\$4 or silver or copper or zinc or ag or cu or zn) with (rins\$4) same (\$4balanc\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/20 14:55

S258	6	"1580313"	EPO; JPO; DERWENT	OR	ON	2010/08/02 17:24
S259	3730	"68".clas. and ion	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/02 17:37
S260	0	8/158,159.ccls. and ((imbalanc\$3 or balanc \$3) and ion).clm.	US-PGPUB; USPAT	OR	ON	2010/08/02 17:38
S261	30	8/158,159.ccls. and ((imbalanc\$3 or balanc \$3) and ion)	US-PGPUB; USPAT	OR	ON	2010/08/02 17:38
S262	49	8/158,159.ccls. and ((imbalanc\$3 or balanc \$3) and ion)	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/02 17:38
S263	533	"68".clas. and ((rins\$4 or wet\$4 or spray\$4) same (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4 or adjuvant)) and (unbalanc\$3 or vibrat \$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT	OR	ON	2010/08/02 17:39
S264	436	"68".clas. and ((rins\$4 or wet\$4 or spray\$4) with (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4 or adjuvant)) and (unbalanc\$3 or vibrat \$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT	OR	ON	2010/08/02 17:41
S265	0	"68/12.01-12.27".clas. and ((rins\$4 or wet\$4 or spray\$4) with (ion or copper or silver or zinc or agent or finish \$4 or soften\$3 or treat \$4 or adjuvant)) and (unbalanc\$3 or vibrat \$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT	OR	ON	2010/08/02 17:42

S266	90	68/12.01-12.27.ccls. and ((rins\$4 or wet\$4 or spray\$4) with (ion or copper or silver or zinc or agent or finish \$4 or soften\$3 or treat \$4 or adjuvant)) and (unbalanc\$3 or vibrat \$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT	OR	ON	2010/08/02 17:42
S267	130	68/12.01-12.27.ccls. and ((rins\$4 or wet\$4 or spray\$4) with (ion or copper or silver or zinc or agent or finish \$4 or soften\$3 or treat \$4 or adjuvant)) and (unbalanc\$3 or vibrat \$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/02 17:42
S268	134	8/158,159.ccls. and ((rins\$4 or wet\$4 or spray\$4) with (ion or copper or silver or zinc or agent or finish\$4 or soften\$3 or treat\$4 or adjuvant)) and (unbalanc\$3 or vibrat \$3 or imbalanc\$3 or balanc\$3 or eccentr\$6)	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/03 12:23

8/12/2010 3:19:36 PM

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